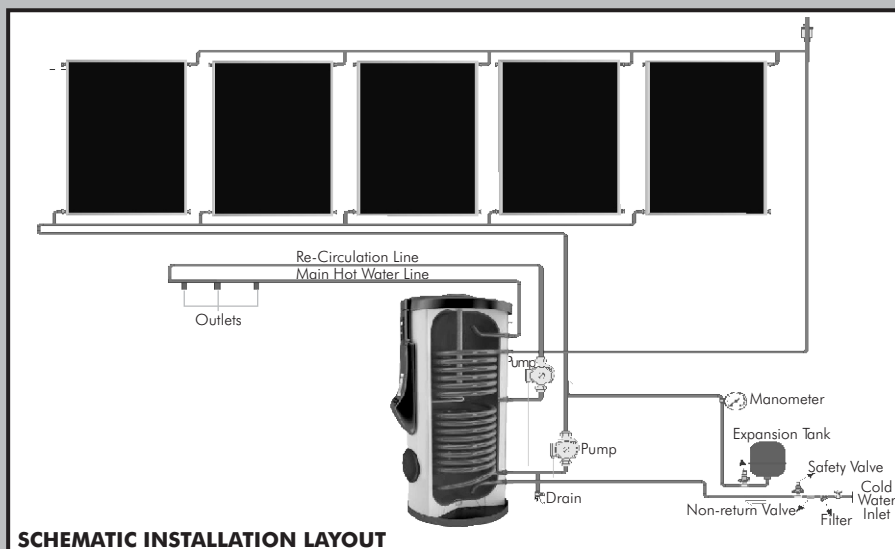


**CSW****Centralised Hot  
Water Systems****SCHEMATIC INSTALLATION LAYOUT**

DAYLIFF CSW pumped circulation hot water systems are applicable in centralised distribution installations where the tank is mounted remotely from the solar collectors instead of the integral thermosyphon alternative. They can be used in small scale domestic systems and are also particularly applicable for larger systems installed in institutions like schools, hotels and hospitals. Key features include:

- High efficiency Ultrasun Premium solar collectors which incorporate full area copper absorption plates ultrasonically welded to copper circulation tubes, advanced specification insulation and tempered security glass to provide energy absorption of up to 95%.
- Long life eco friendly Ultrasun Premium indirect single coil water storage tank made from low carbon steel with double enamel internal coating and cathodic protection for exceptional corrosion protection. Tanks are also provided with powder coated steel external casings with soft foam insulation and thermostat controlled heating elements (1x2kW up to 500L and 2x2kW for 1000L to 2000L respectively).
- High performance Grundfos Alpha2 25-60 speed controlled circulator pump available on request.
- An advanced programmable differential temperature controller manages operation of forced circulation solar systems. The controller incorporates inputs from sensors that monitor temperature at various points in the system and relays signals to control the circulation pump and thermostats to optimize hot water availability. It also includes a digital display indicator indicating the system layout, hour counter for the circulator pump and system temperatures.

DAYLIFF CSW Hot Water system are available in various tank sizes and collector configurations to suit most residential and institution applications and provide an efficient and effective solution to all pumped solar hot water heating requirements.

#### OPERATING CONDITIONS

**Water Quality:** Water outside the following limits should be appropriately pre-treated: Clarity: Clear, TDS:>600mg/l, Hardness: >200mg/l CaCO<sub>3</sub>.

**Saturation Index:** >0.8

**Max Operating Pressure:** 10 Bar

#### EQUIPMENT SPECIFICATIONS

MODEL	CSW300	CSW500	CSW1000	CSW1500	CSW2000
No of People	6	10	20	30	40
System Tank size (Litres)	300	500	1000	1500	2000
Tank Dimensions (DxH)	700x1210	740x1800	1006x2072	1120x2300	1460x2200
Pipe Connection Size	1"		1 1/4"		
Empty Tank Weight (kgs)	118	189	269	366	570
Collector Model	3xST230	5xST230	7xST230	10xST230	17xST230
Collector Area (m <sup>2</sup> )	6.9	11.5	16.1	23	39.1
Collector Weight (kgs)	108	180	252	360	600
Max. /Min. Heat Output/Day (kWhrs)	41/28	69/46	97/64	138/92	235/156

**Note:** Maximum heating output is based on average irradiation levels of 6000W/m/day prevailing in September - March and minimum Heating output is based on average irradiation levels of 4000W/m/day prevailing in June/ July and are for indicative purposes only.